

FIG. 1A

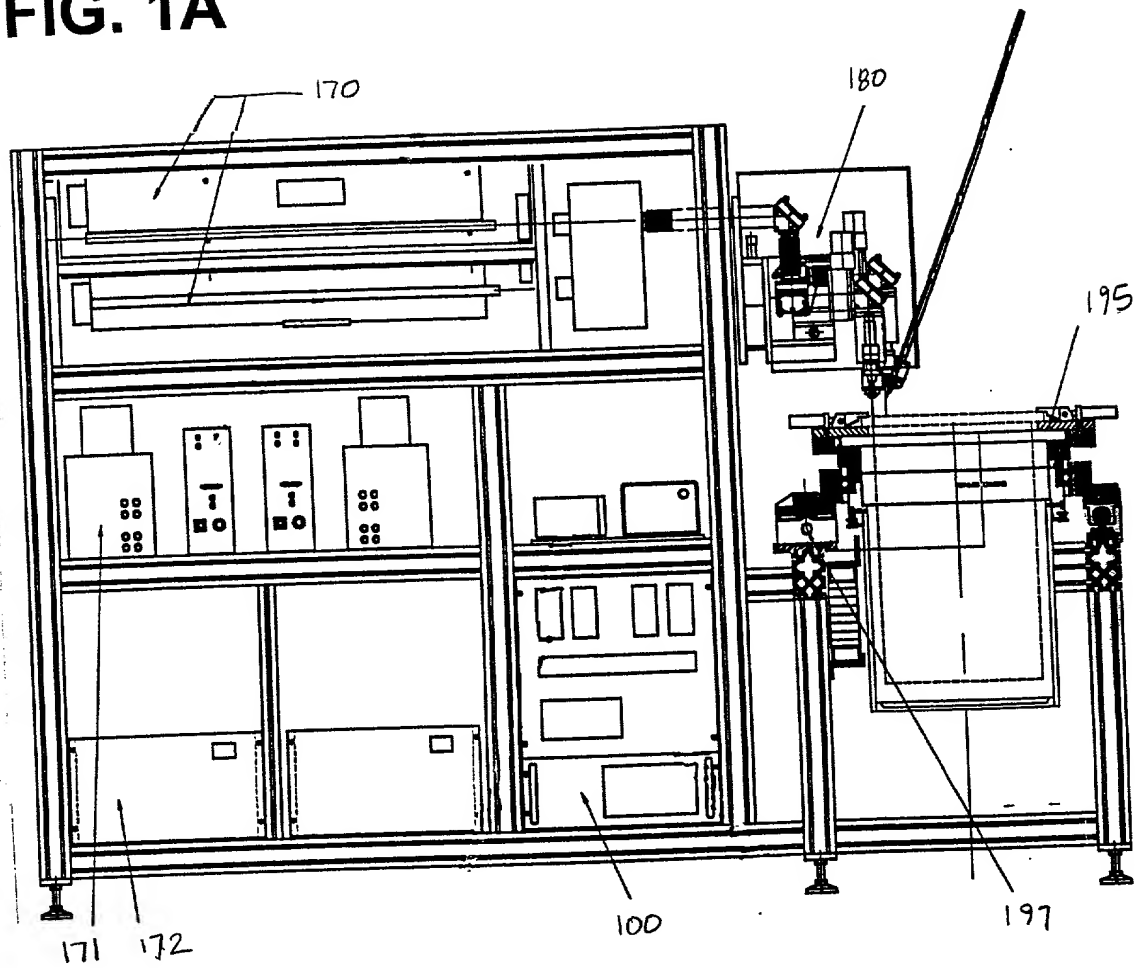


FIG. 1B

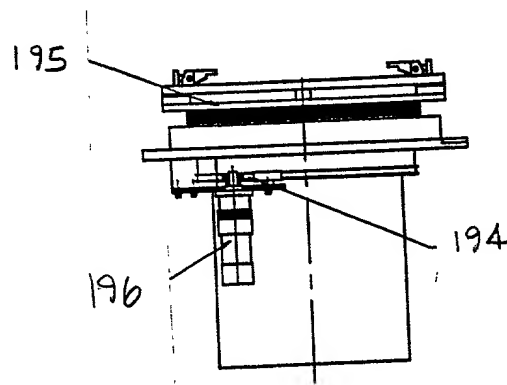
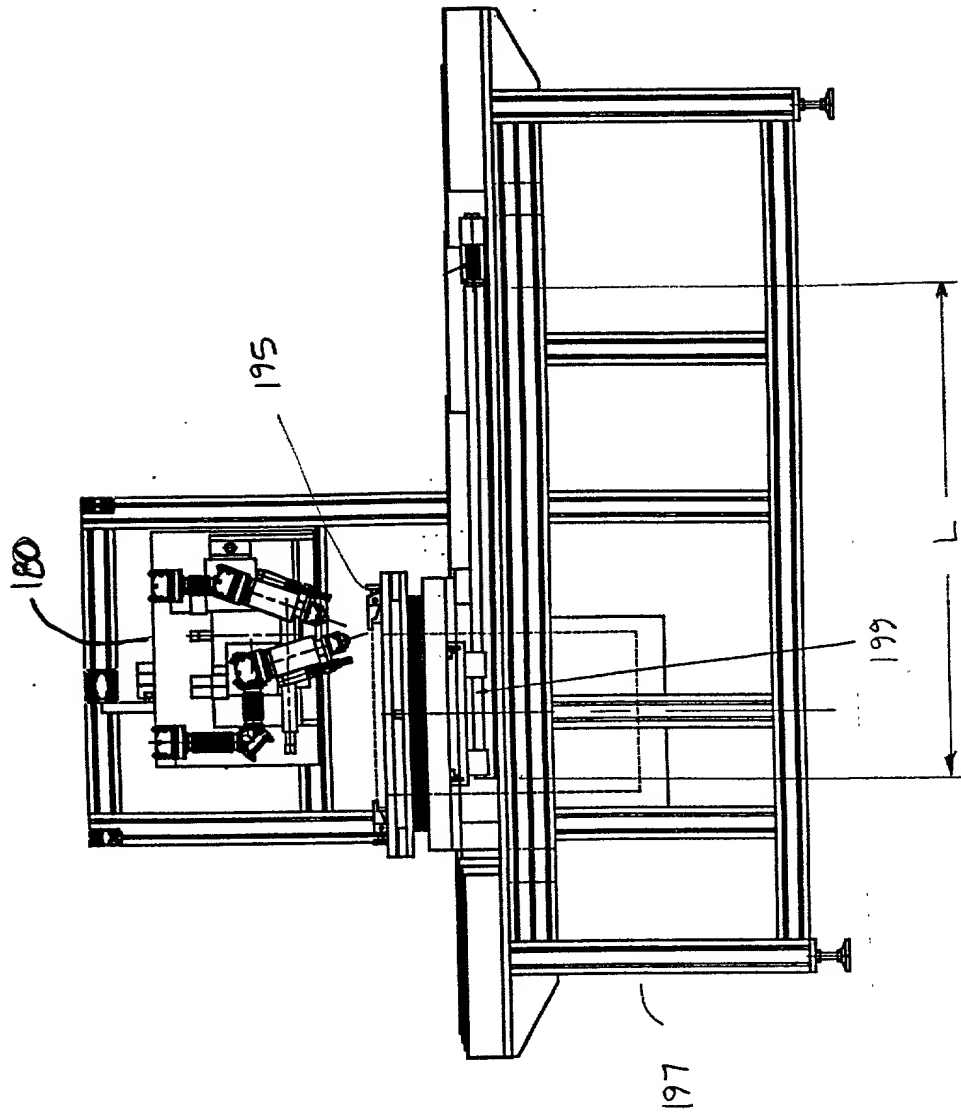


FIG. 1C



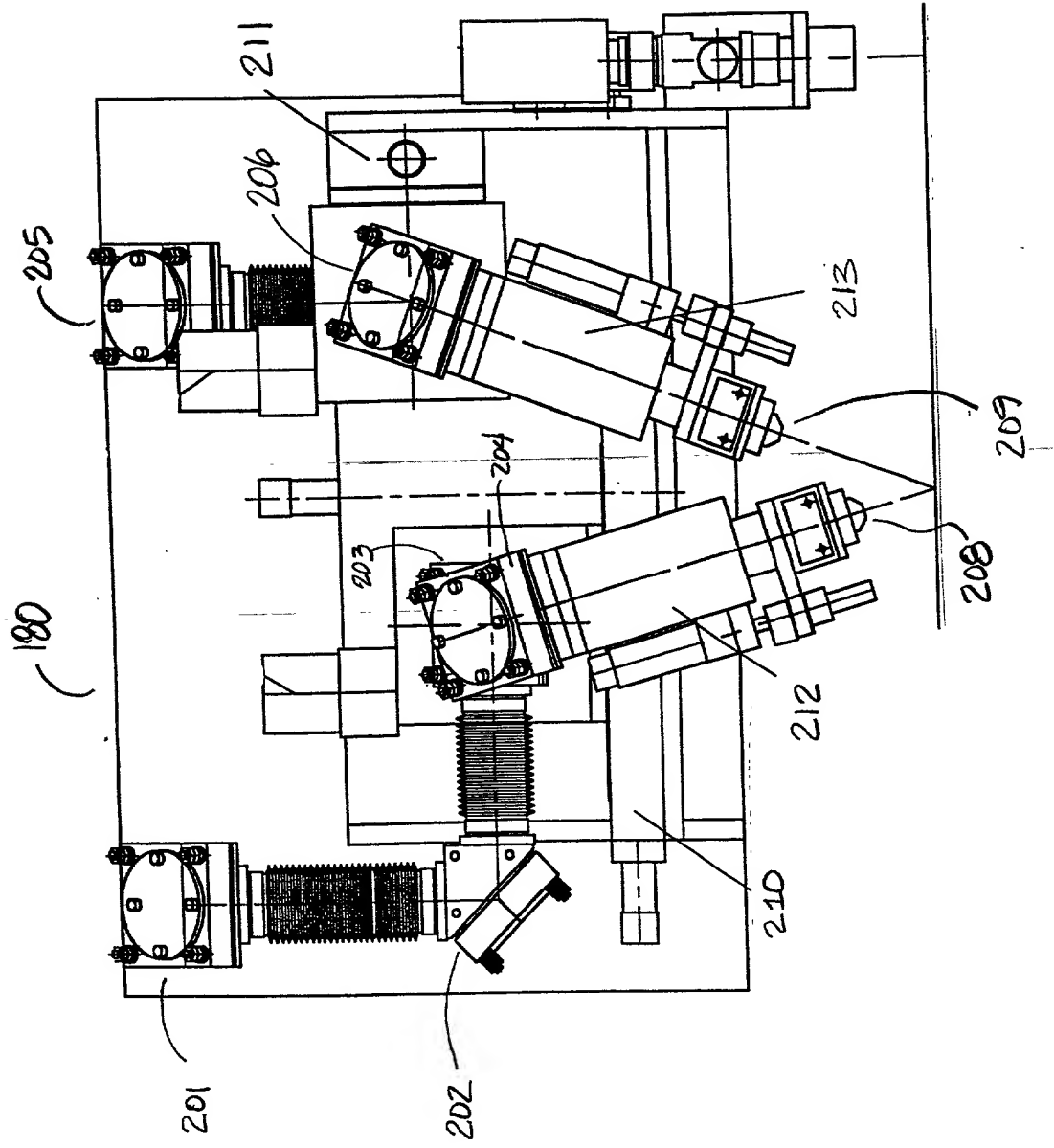
[illegible]

FIG. 2A

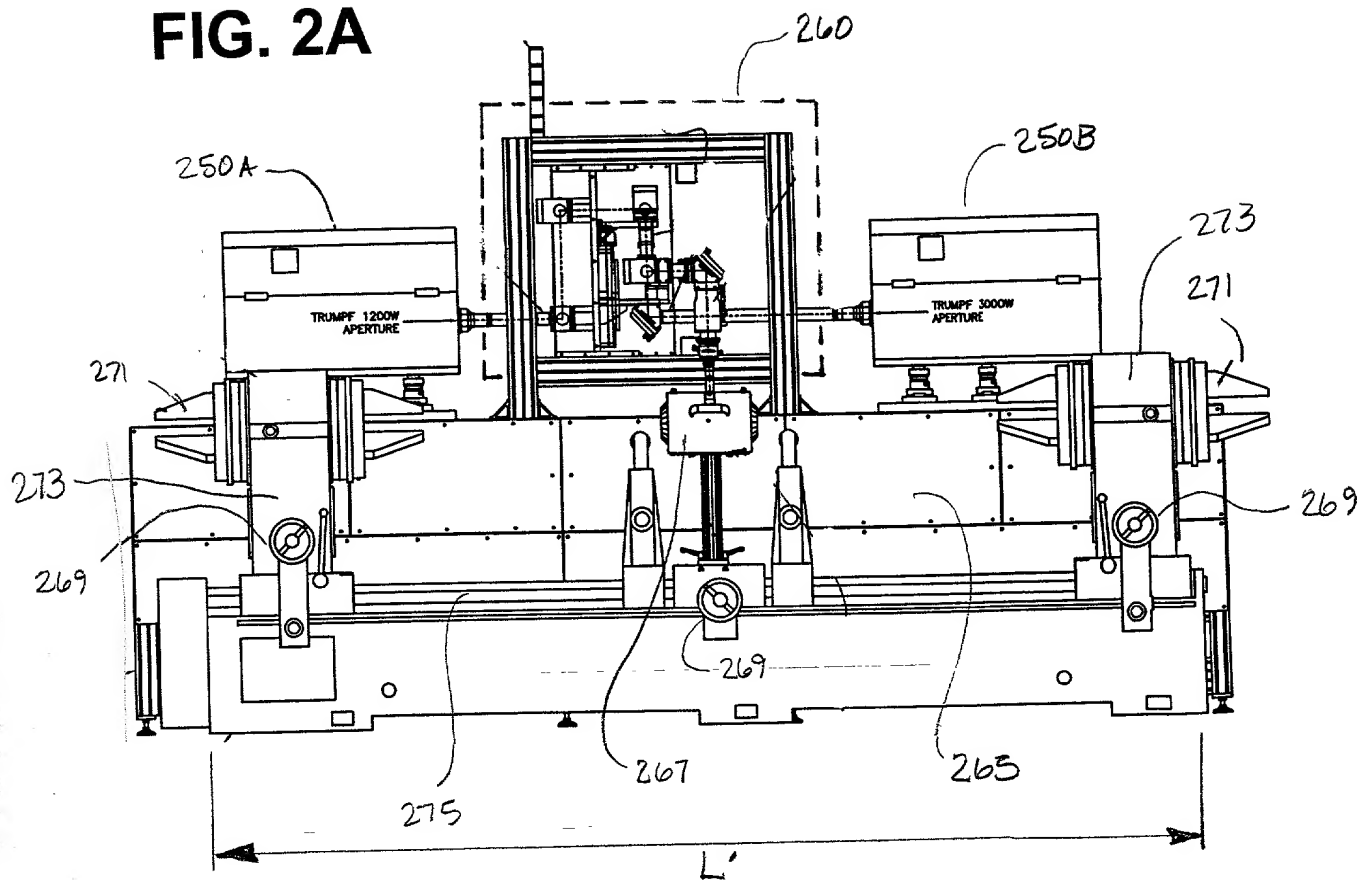
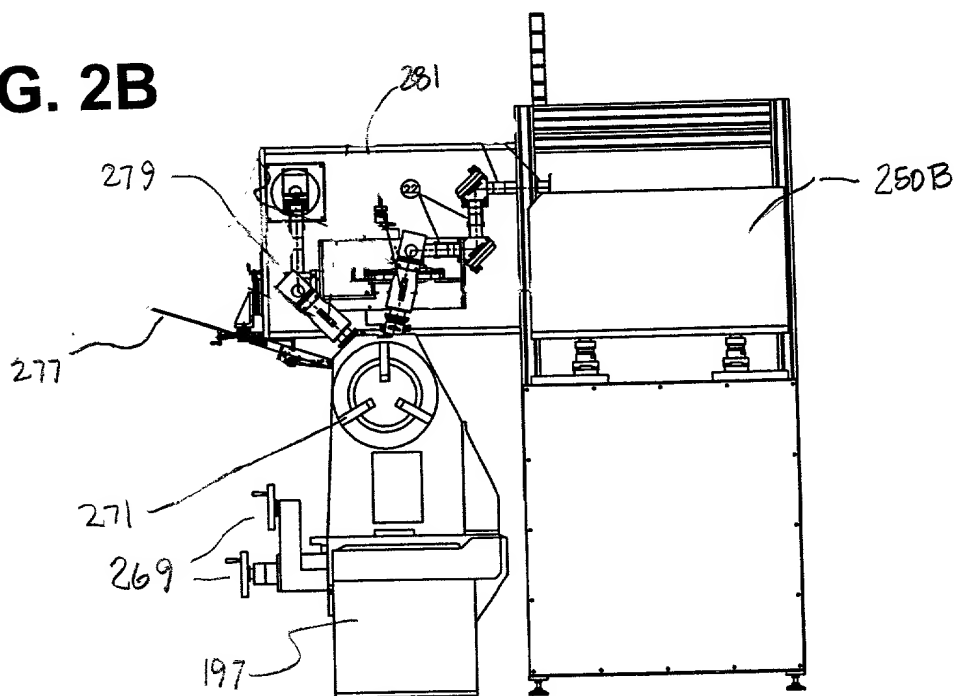


FIG. 2B



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

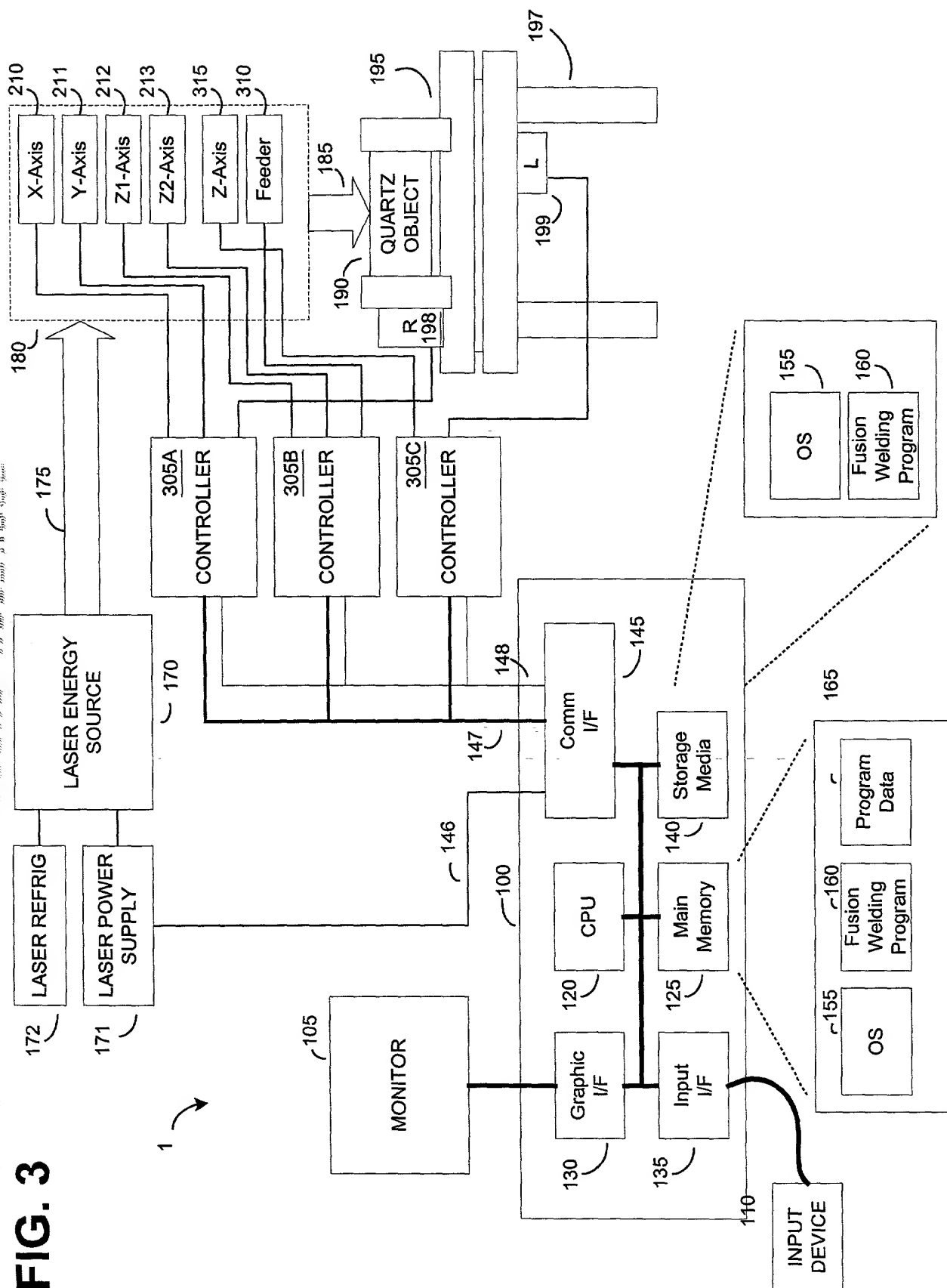


FIG. 4A

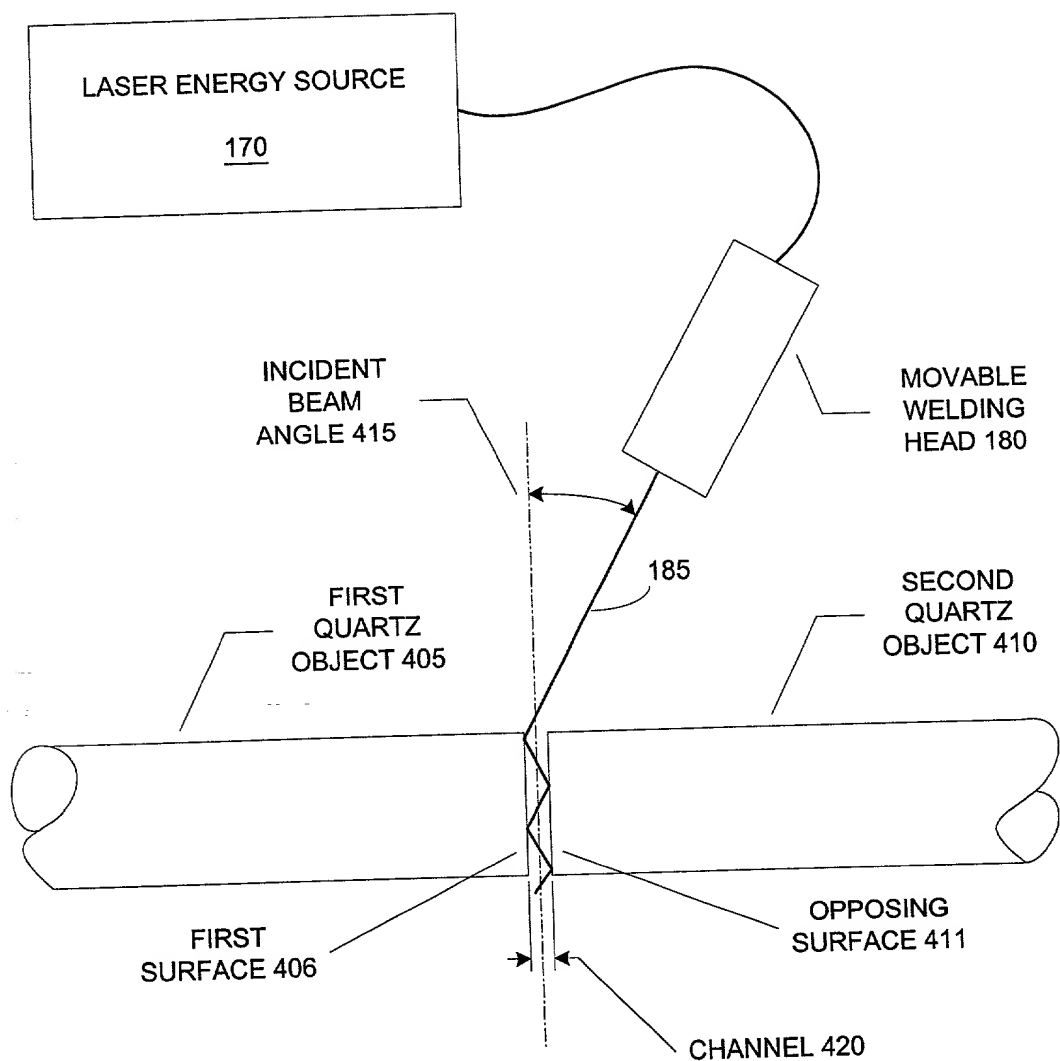


FIG. 4B

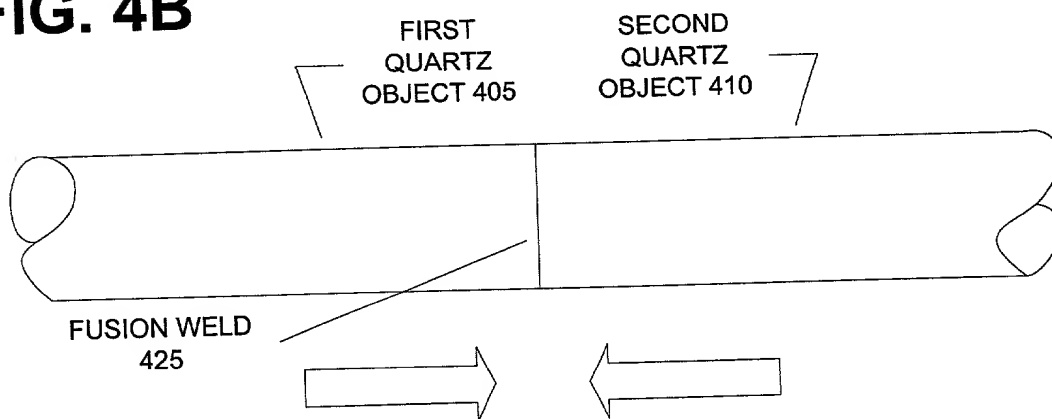
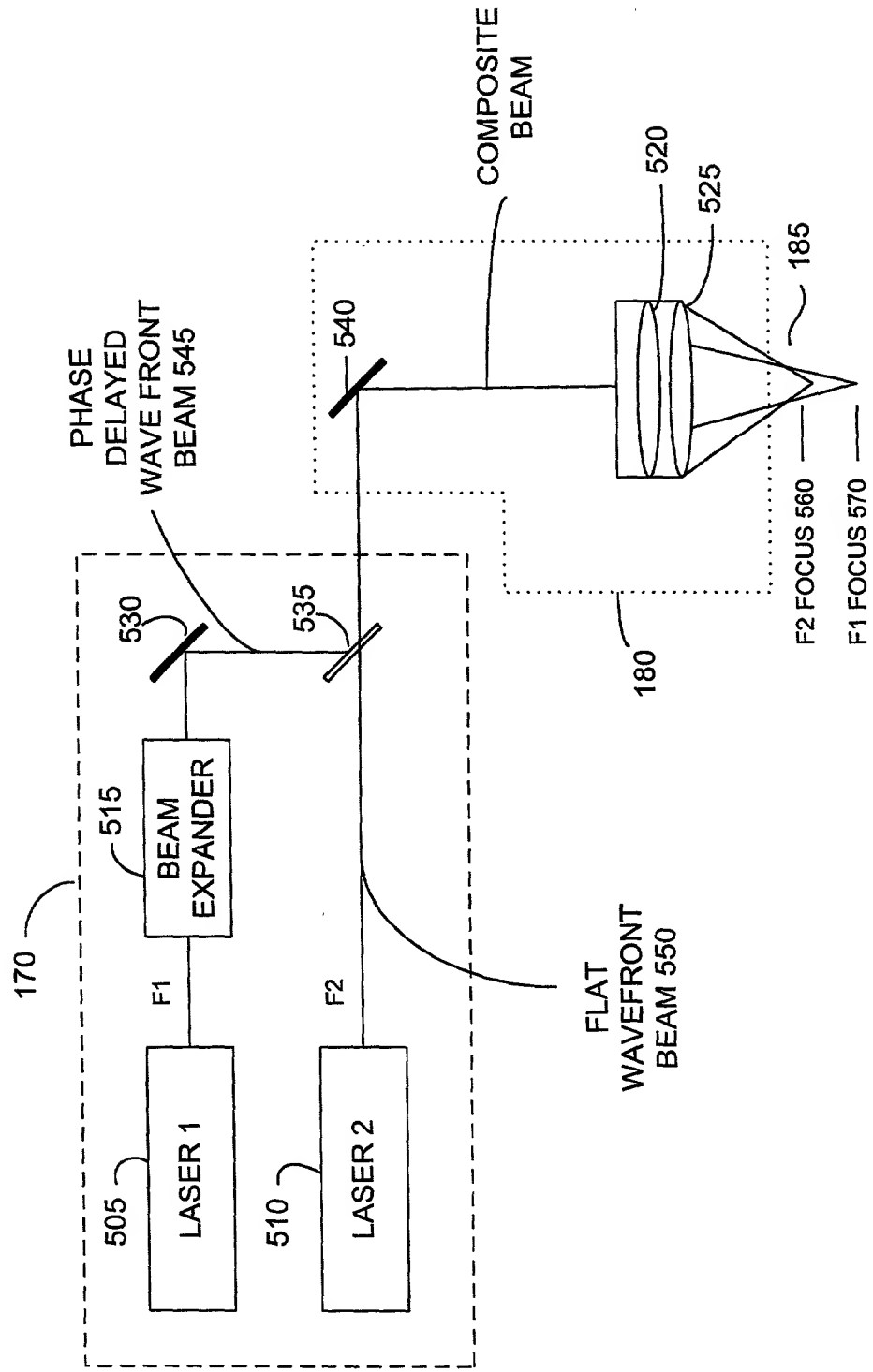


FIG. 5



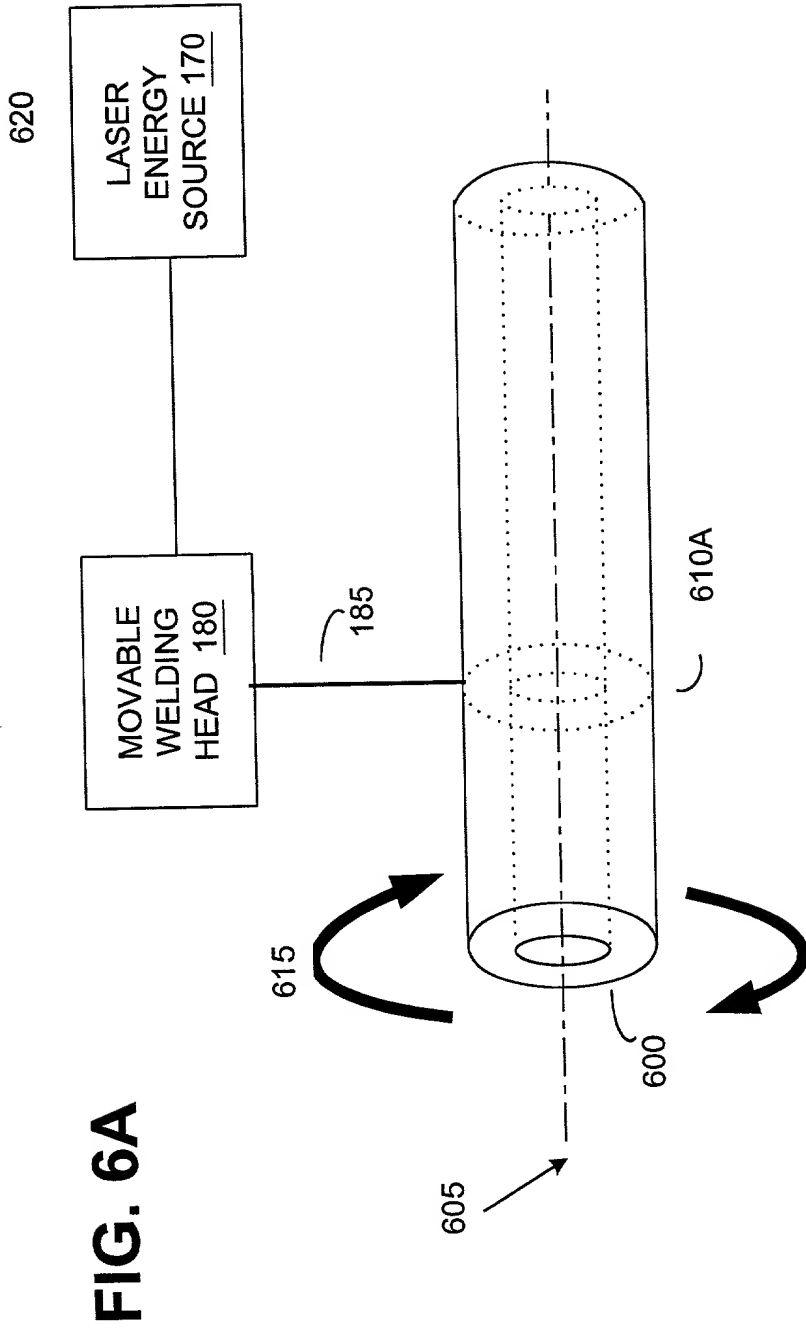


FIG. 6B is a schematic diagram of a laser welding system. The system includes a laser energy source 170, a movable welding head 180, and a workpiece 600. The laser energy source 170 is connected to the movable welding head 180. The movable welding head 180 is positioned above the workpiece 600. The workpiece 600 is a cylindrical component with a central bore 605. The movable welding head 180 is shown with a double-headed arrow 625 indicating its vertical movement. The laser energy source 170 is shown with a double-headed arrow 627 indicating its horizontal movement. The workpiece 600 is shown with a double-headed arrow 627 indicating its horizontal movement. The movable welding head 180 is shown with a double-headed arrow 625 indicating its vertical movement. The laser energy source 170 is shown with a double-headed arrow 627 indicating its horizontal movement. The workpiece 600 is shown with a double-headed arrow 627 indicating its horizontal movement.

FIG. 6B

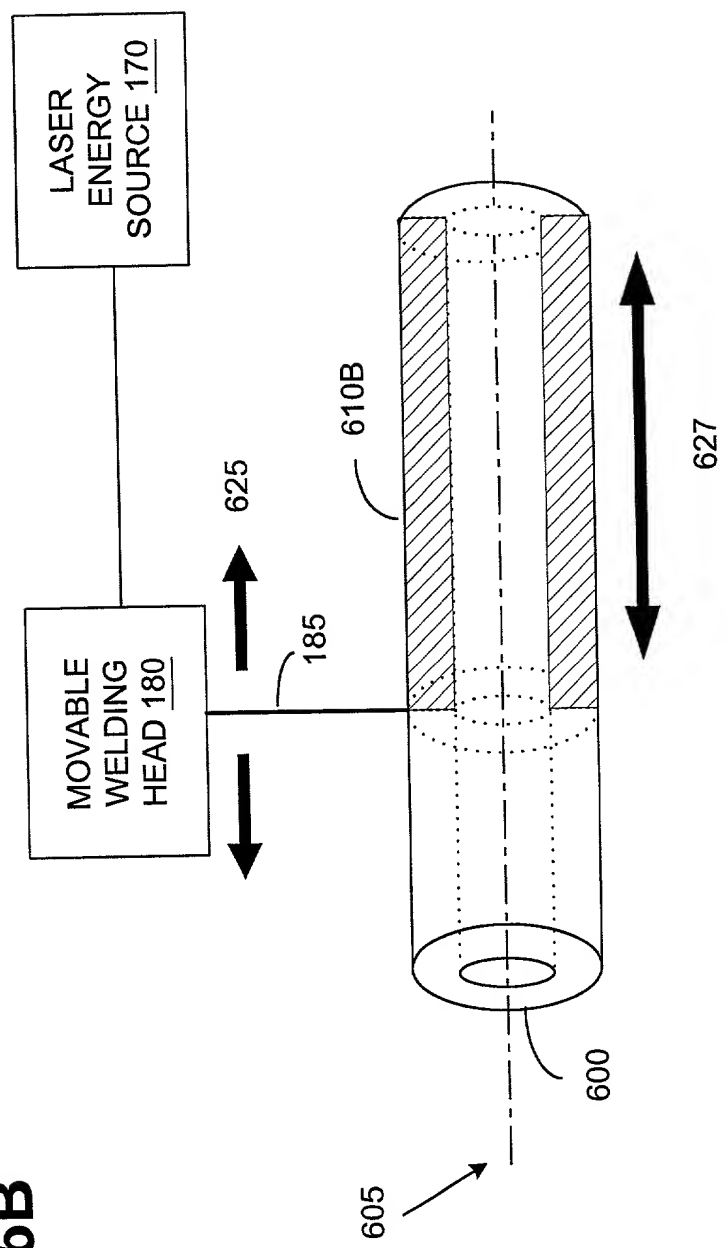


FIG. 6C is a schematic diagram of a laser welding system. The system includes a laser energy source 170, a movable welding head 180, and a workpiece 600. The laser energy source 170 is connected to the movable welding head 180. The movable welding head 180 is positioned above the workpiece 600. The workpiece 600 is a cylindrical object with a central longitudinal axis 600. The movable welding head 180 is shown in a position to weld the workpiece 600. The laser energy source 170 is connected to the movable welding head 180 by a line 185. The movable welding head 180 is shown with a curved arrow 615 indicating its movement along the workpiece 600. The workpiece 600 is shown with a dashed line 610C indicating its longitudinal axis. A starting point 630 is indicated on the workpiece 600. A double-headed arrow 627 indicates the direction of movement of the movable welding head 180 along the workpiece 600. A curved arrow 625 indicates the rotation of the workpiece 600 around its longitudinal axis 600.

FIG. 6C

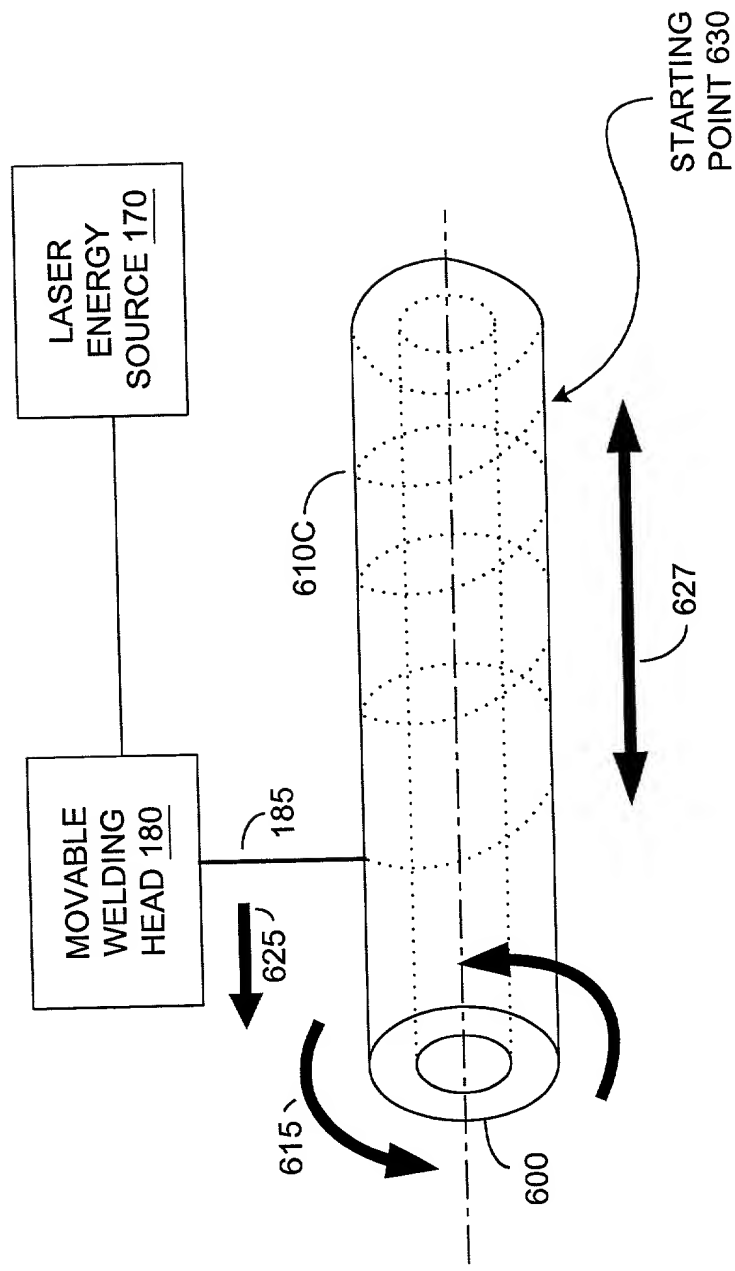


FIG. 7A

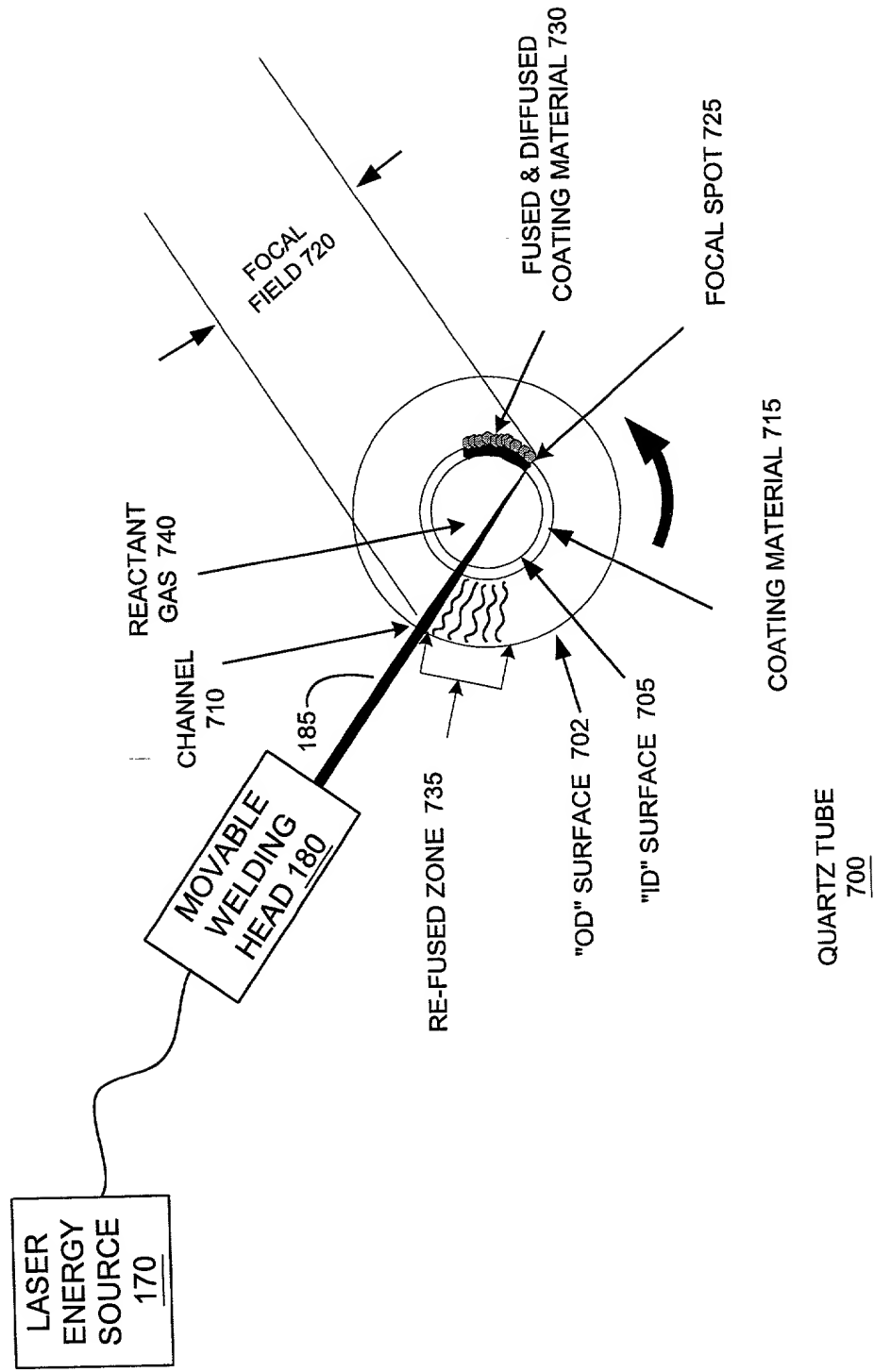


FIG. 7B

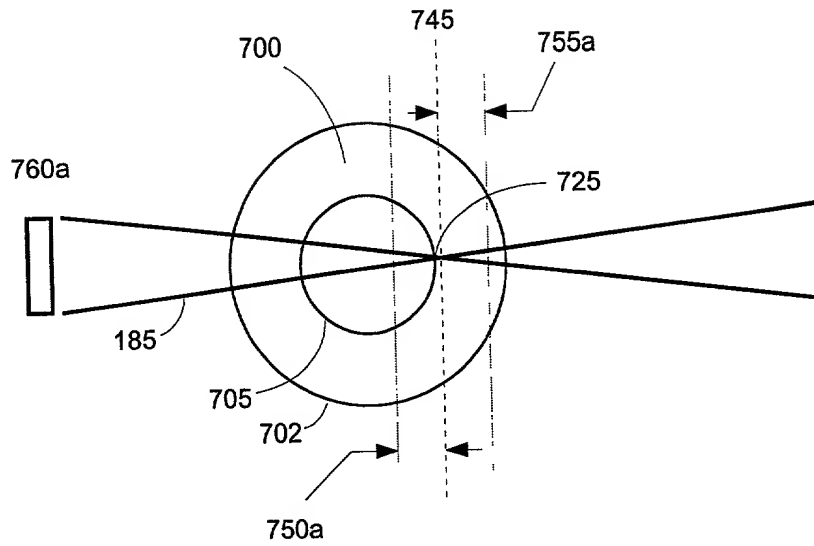


FIG. 7C

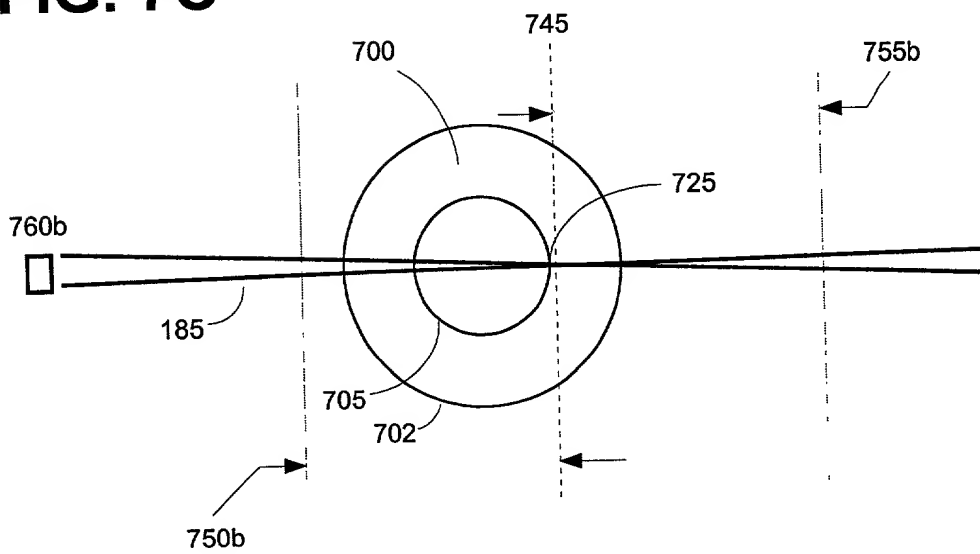


FIG. 8B

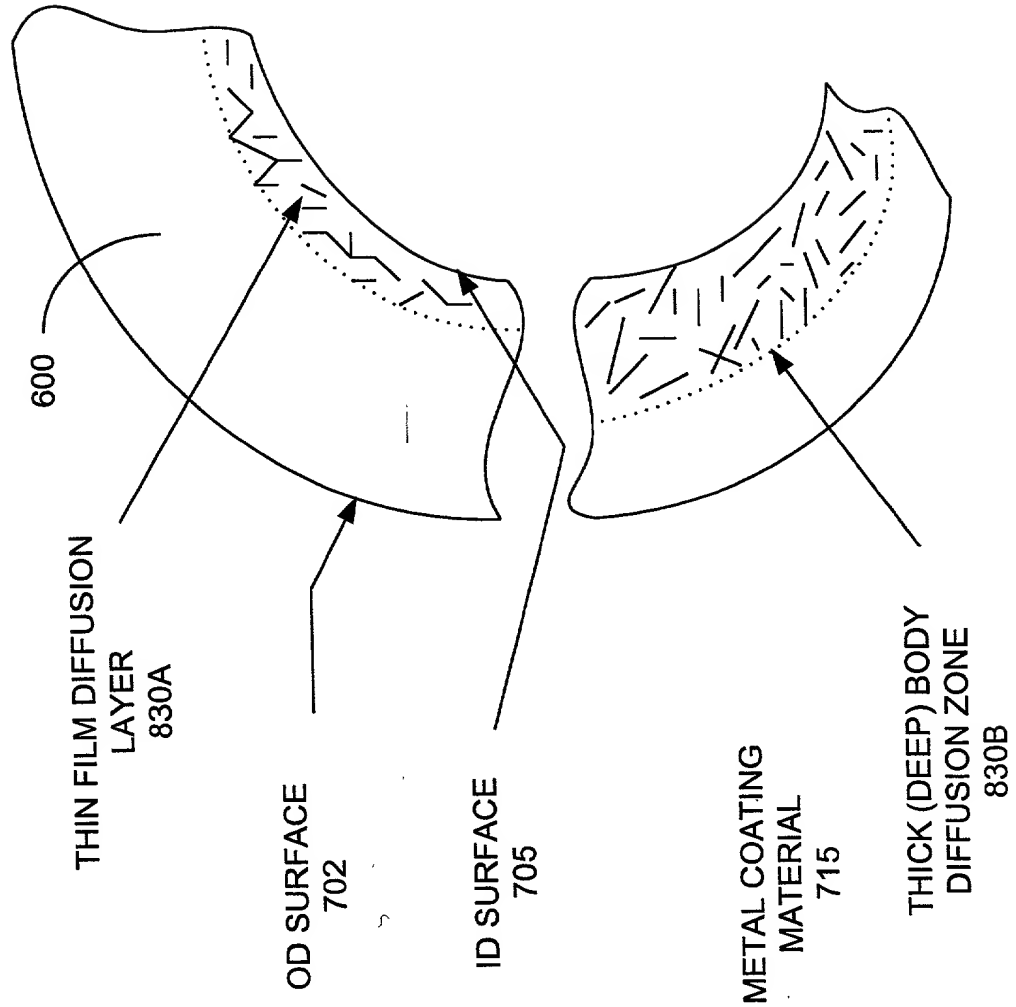


FIG. 8A

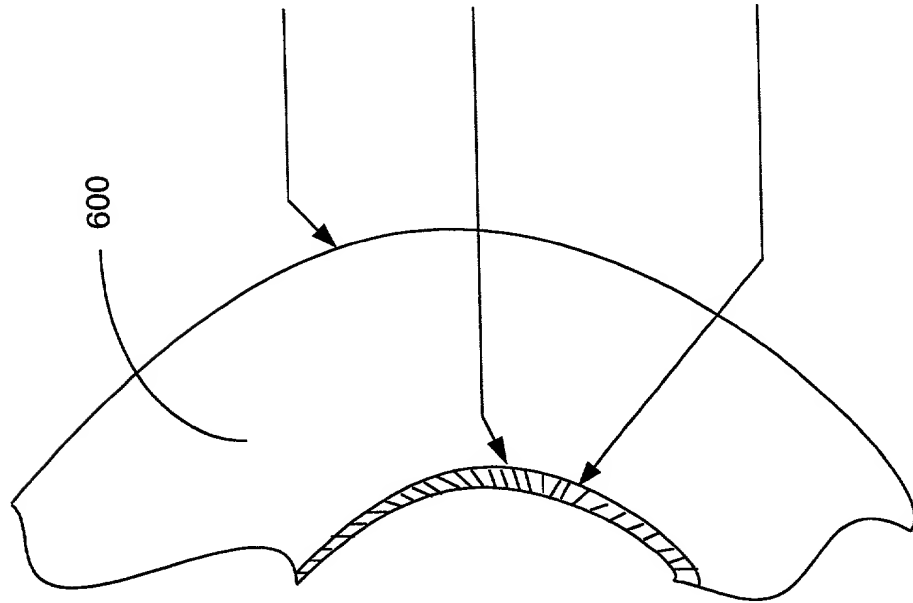


FIG. 9

900

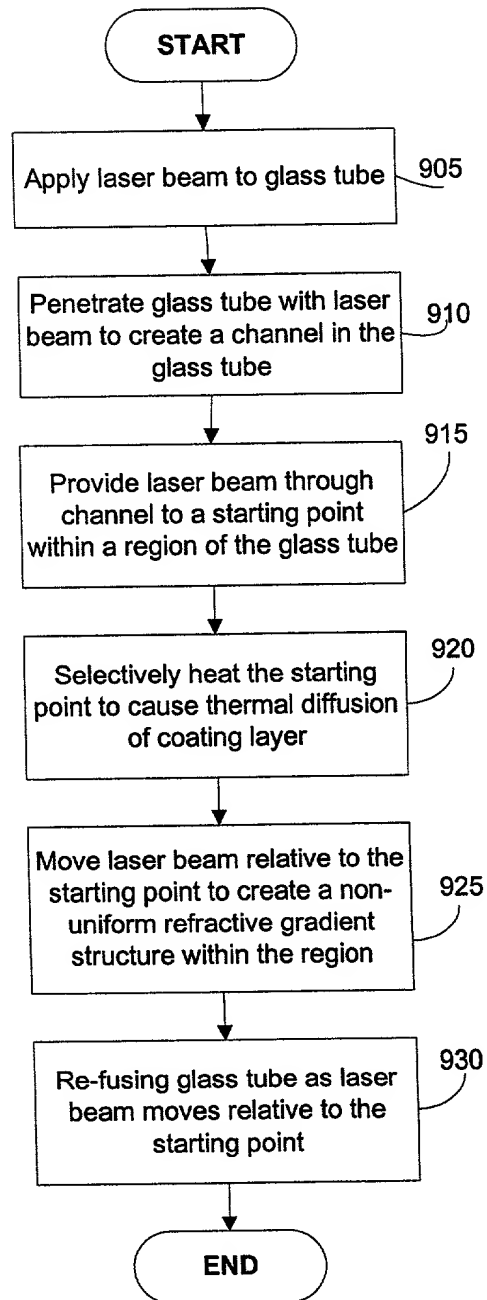


FIG. 10

1000

